

Translation

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference F2939WO	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/012611	International filing date (day/month/year) 01 October 2003 (01.10.2003)	Priority date (day/month/year) 01 October 2002 (01.10.2002)
International Patent Classification (IPC) or national classification and IPC B29D 30/38		
Applicant BRIDGESTONE CORPORATION		

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of _____ (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>	
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>	

Date of submission of the demand 25 February 2004 (25.02.2004)	Date of completion of this report 22 October 2004 (22.10.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/012611

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☒ The international application as originally filed/furnished
- ☐ the description:
- pages _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the claims:
- pages _____, as originally filed/furnished
- pages* _____, as amended (together with any statement) under Article 19
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the drawings:
- pages _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP03/12611

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	2, 3	YES
	Claim	1	NO
Inventive step (IS)	Claim	2	YES
	Claims	1, 3	NO
Industrial applicability (IA)	Claims	1-3	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP, 6-106652, A (Sedepro), April 19, 1994 (04.19.94)
& EP, 582215, A1 & US, 5395476, A
& CN, 1082985, A

Document 2: JP, 62-292423, A
(Compagne Generale Des Etablissements Michelin), December 19, 1987 (12.19.87)
& EP, 248301, A1 & US, 4804436, A
& CN, 1008801, B

Document 3: WO, 88/10199, A1 (Sumitomo Rubber Industries, Ltd.), December 29, 1988 (12.29.88)
& US, 5032198, A & EP, 319588, A1

Claim 1

Document 1 describes a method for manufacturing a tire wherein, on a base rotatably fitted around an axis line, the various tire components are layered in the position and order required by a tire structure so to produce a tire little by little, and wherein at least one top reinforcing material is created by supplying a cord to at least one attachment tube, cutting the cord on the upstream side of the attachment tube, cutting out a cord segment, sending the cord segment to an attachment head that laterally moves through the attachment tube over the base, and automatically bonding the cord segment bonded to the base.

Document 2 describes a method for manufacturing a tire reinforcing material, wherein each reinforcing cord is individually injected on a prescribed position in the reinforcing material, the reinforcing material is manufactured on one element that determines the geometric shape thereof, the element and cord comprise a cord having its own adhesiveness and provided adjacent to each other roughly in parallel, and also describes that a cord to be cut into a desired length is to be extruded.

Therefore, the invention relating to claim 1 does not appear to be novel or involve an inventive step.

Claim 2

None of the documents cited in the ISR describes that cords with rubber are layered in two layers including a radially inward layer and radially outward layer, thereafter a cord with rubber in the outer layer is press fitted in between the cords with rubber in the inner layer; nor is it obvious to a party skilled in the art. Therefore, the invention relating to claim 2 appears to be novel and involve an inventive step.

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of Box V:

Claim 3

Document 3 describes a band molding device, wherein a cord winding device is directly linked with a rubber coating device, and the rubber-coated cords are guided to the winding device.

A configuration such that a rubber coating device and attaching device as described in document 3 are directly linked in the inventions described in documents 1 and 2 could be easily conceived of by a party skilled in the art. At such time, providing a mechanism such as a festoon, drum or the like between the coating device and the attaching device to adjust cord supply to the attaching device and tension on the cords could be conceived of as appropriate.

Therefore, the invention relating to claim 3 does not appear to involve an inventive step.